



# SAW Components

Data Sheet B9032





Data Sheet Sheet

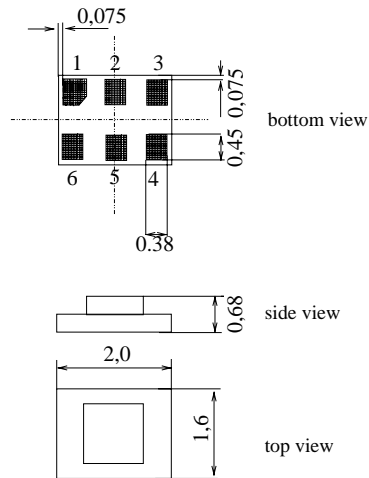
Chip sized SAW package DCS6T

Features

- Low-loss RF filter for mobile telephone GSM850/AMPS system, receive path
- Usable passband 25 MHz
- Unbalanced to balanced operation
- Impedance transformation from 50 Ω to 150 Ω
- Suitable for GPRS class 1 to12
- Ceramic package for **Surface Mounted Technology (SMT)**

Terminals

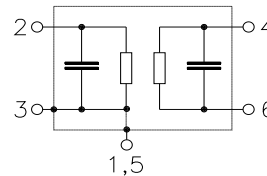
- Ni, gold-plated



Dimensions in mm, approx. weight 0,007g

Pin configuration

- 2 Unbalanced input
- 4, 6 Balanced output
- 1, 3, 5 To be grounded



Type	Ordering code	Marking and Package according to	Packing according to
B9032	B39881-B9032-K310	C61157-A7-A128	F61074-V8152-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	$T$	- 40 / + 85	°C	Machine Model, 10 pulses
Storage temperature range	$T_{stg}$	- 40 / + 85	°C	
DC voltage	$V_{DC}$	3	V	
ESD	$V_{ESD}$	100*	V	
Input power at GSM850, GSM900 GSM1800, GSM1900 Tx bands	$P_{IN}$	15	dBm	

\* - acc. to JEESD22-A115A (Machine Model), 10 negative & 10 positive pulses



Data Sheet Sheet

Characteristics

Operating temperature range:  $T = +25\text{ }^{\circ}\text{C}$   
 Terminating source impedance:  $Z_S = 50\ \Omega$  (unbalanced)  
 Terminating load impedance:  $Z_L = 150\ \Omega$  (balanced) || 82nH

			min.	typ.	max.	
<b>Center frequency</b>	$f_C$		—	881,5	—	MHz
<b>Maximum insertion attenuation</b>	$\alpha_{max}$	869,0 ... 894,0 MHz	—	1,5	1,8	dB
<b>Amplitude ripple (p-p)</b>	$\Delta\alpha$	869,0 ... 894,0 MHz	—	0,4	0,7	dB
<b>Input VSWR</b>	$v_{SWrIN}$	869,0 ... 894,0 MHz	—	1,6	2,0	
<b>Output VSWR</b>	$v_{SWrOUT}$	869,0 ... 894,0 MHz	—	1,6	2,0	
<b>Common mode Suppression</b>	$S_{sc12}$	824,0 ... 995,0 MHz	20	27	—	dB
		1648,0 ... 1990,0 MHz	20	50	—	dB
		3296,0 ... 3980,0 MHz	20	40	—	dB
<b>Attenuation</b>	$\alpha$	0,0 ... 450,0 MHz	45	57	—	dB
		450,0 ... 820,0 MHz	30	34	—	dB
		820,0 ... 849,0 MHz	30	34	—	dB
		914,0 ... 1738,0 MHz	25	29	—	dB
		1738,0 ... 1788,0 MHz	45	55	—	dB
		1788,0 ... 4000,0 MHz	40	47	—	dB
		4000,0 ... 6000,0 MHz	20	30	—	dB



Data Sheet Sheet

Characteristics

Operating temperature range:  $T = -10$  to  $+80$  °C  
 Terminating source impedance:  $Z_S = 50 \Omega$  (unbalanced)  
 Terminating load impedance:  $Z_L = 150 \Omega$  (balanced) || 82nH

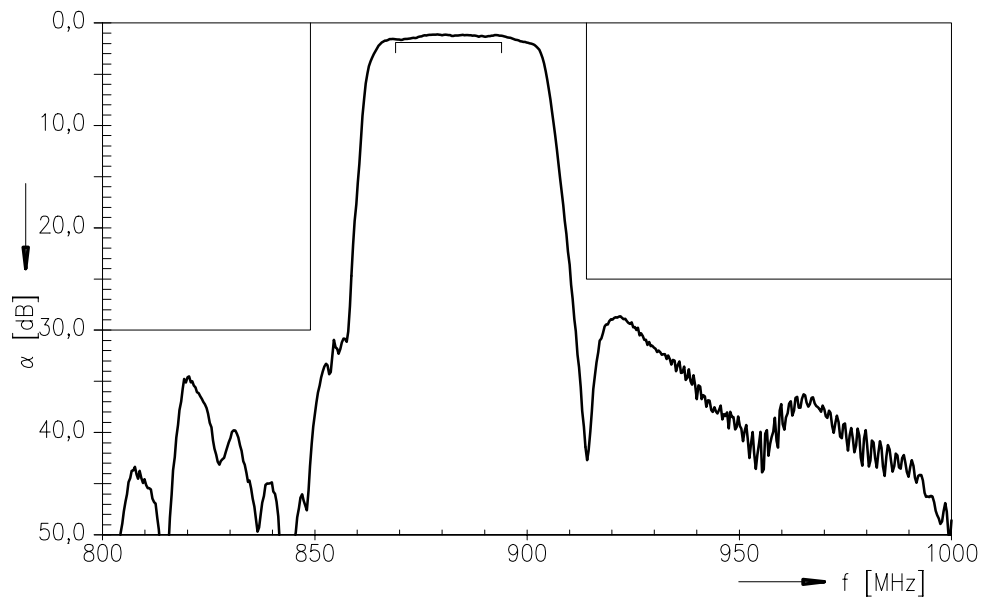
			min.	typ.	max.	
<b>Center frequency</b>	$f_C$		—	881,5	—	MHz
<b>Maximum insertion attenuation</b>	$\alpha_{max}$	869,0 ... 894,0 MHz	—	1,5	1,8 <sup>1)</sup>	dB
<b>Amplitude ripple (p-p)</b>	$\Delta\alpha$	869,0 ... 894,0 MHz	—	0,4	0,8	dB
<b>Input VSWR</b>	$v_{SWR_{IN}}$	869,0 ... 894,0 MHz	—	1,6	2,0	
<b>Output VSWR</b>	$v_{SWR_{OUT}}$	869,0 ... 894,0 MHz	—	1,6	2,0	
<b>Common mode Suppression</b>	$S_{sc12}$					
		824,0 ... 995,0 MHz	20	27	—	dB
		1648,0 ... 1990,0 MHz	20	50	—	dB
		3296,0 ... 3980,0 MHz	20	40	—	dB
<b>Attenuation</b>	$\alpha$					
		0,0 ... 450,0 MHz	45	57	—	dB
		450,0 ... 820,0 MHz	30	34	—	dB
		820,0 ... 849,0 MHz	30	34	—	dB
		914,0 ... 1738,0 MHz	25	29	—	dB
		1738,0 ... 1788,0 MHz	45	55	—	dB
		1788,0 ... 4000,0 MHz	40	47	—	dB
		4000,0 ... 6000,0 MHz	20	30	—	dB

1) Maximum insertion attenuation from -30 to -10 & from +80 to +85 °C is 2.0 dB

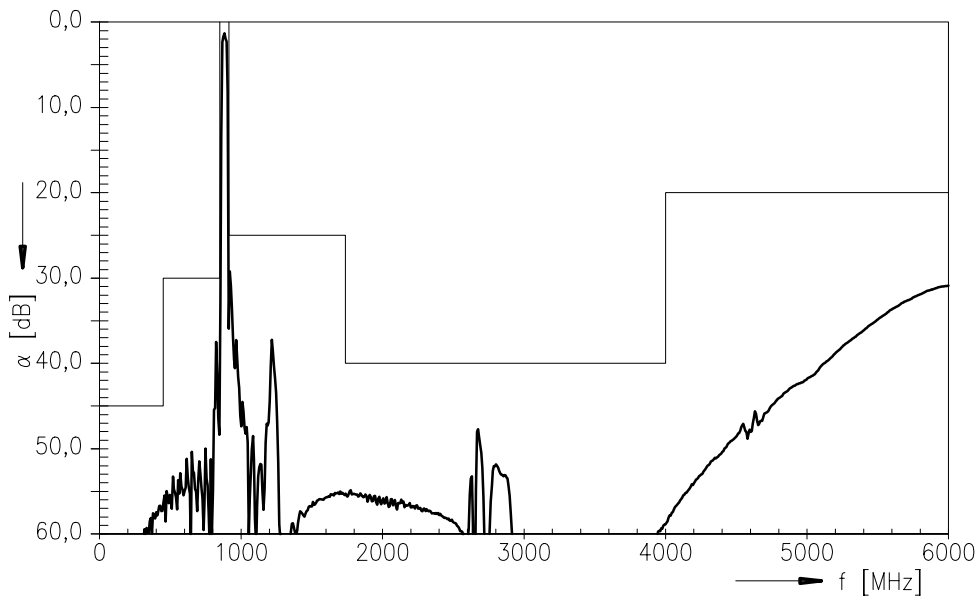


Data Sheet Sheet

Transfer function (narrowband; 50  $\Omega$  to 150  $\Omega$  operation)



Transfer function (wideband; 50  $\Omega$  to 150  $\Omega$  operation)





**SAW Components**

**B9032**

**Low-Loss Filter for Mobile Communication**

**881,5 MHz**

Data Sheet Sheet

**Published by EPCOS AG**

**Surface Acoustic Wave Components Division, SAW MC WT**

**P.O. Box 80 17 09, 81617 Munich, GERMANY**

© EPCOS AG 2005. Reproduction, publication and dissemination of this brochure and the information contained therein without EPCOS' prior express consent is prohibited.

Purchase orders are subject to the General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry recommended by the ZVEI (German Electrical and Electronic Manufacturers' Association), unless otherwise agreed.

This brochure replaces the previous edition.

For questions on technology, prices and delivery please contact the Sales Offices of EPCOS AG or the international Representatives.

Due to technical requirements components may contain dangerous substances. For information on the type in question please also contact one of our Sales Offices.